

The LXGW Font Family* | 落霞与孤鹜齐飞 秋水共长天一色

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Released 2026-06-02 v1.522E

This package packs a selection of open-source CJK fonts from 霞鶯新繖宋, 霞鶯新晰黑, 霞鶯文楷, 霞鶯臻楷, which are released into public domain by LXGW and 朱雀仿宋 released into public domain by TrionesType since 2021. They are licensed under the IPA Font License and SIL Open Font License.

Abstract

The LXGW Font Family provides an open-source CJK font family with a comprehensive character set for Chinese (Simplified/Traditional), Cantonese, and Japanese. A fontset configuration of this font family for the ctex-kit is also provided in this package.

1 Usage

Users are allowed to use the friendly interface: the fontset key in C_T_EX kit

```
\documentclass[fontset = lxgw]{ctex(art|book|rep|beamer)}  
\usepackage [fontset = lxgw]{ctex}
```

with engines pdf_T_EX, X_Y_T_EX, Lua_T_EX, up_T_EX, and Ap_T_EX supported. Four commands are provided for loading the listed regular and **bold** font files

\songti	宋体 (CJKmainfont): LXGWNeoZhiSong.ttf, LXGWNeoZhiSongScreen.ttf
\heiti	黑体 (CJKsansfont): LXGWNeoXiHei.ttf, LXGWNeoXiHeiScreen.ttf
\fangsong	仿宋 (CJKmonofont): LXGWZhuqueFangsong-Regular.ttf (AutoFakeBold enabled)
\kaishu	楷书 (it.of CJKmainfont): LXGWWenKaiGBLite-Regular.ttf, LXGWZhenKaiGB-Regular.ttf

This user-friendly interface is implemented in A.1, A.2, and A.3.

The .ttf files are sourced from the following links

- <https://github.com/lxgw/LxgwNeoZhiSong/releases/latest/download/LXGWNeoZhiSong.ttf>
- <https://github.com/lxgw/LxgwNeoXiZhi-Screen/releases/latest/download/LXGWNeoZhiSongScreen.ttf>
- <https://github.com/lxgw/LxgwNeoXiHei/releases/latest/download/LXGWNeoXiHei.ttf>
- <https://github.com/lxgw/LxgwNeoXiZhi-Screen/releases/latest/download/LXGWNeoXiHeiScreen.ttf>
- <https://github.com/TrionesType/zhuque/releases/download/v0.212/ZhuqueFangsong-v0.212.zip>
- <https://github.com/lxgw/LxgwWenkaiGB-Lite/releases/latest/download/LXGWWenKaiGBLite-Regular.ttf>
- <https://github.com/lxgw/LxgwZhenKai/releases/latest/download/LXGWZhenKaiGB-Regular.ttf>

*<https://github.com/myhsia/LXGW-CTAN>

[†]<https://github.com/lxgw>, <https://github.com/TrionesType/zhuque>

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2 Font Demos

The following lists the Chinese/English name, filename, and demos of the fonts: Cantonese, Japanese, Chinese (Simplified/Traditional) versions of “**I Can Eat Glass**”, and missing character markers are provided with punctuation compression disabled.

霞鶯新緻宋 = LXGWNeoZhiSong.ttf, LXGWNeoZhiSongScreen.ttf

私	ガ	ラ	ス	を	食	べ	ら	れ	ま	す	。	☒	そ	れ	は	私	を	傷	つ	け	ま	せ	ん	。
我	能	吞	下	玻	璃	而	不	伤	身	体	。	☒	我	能	吞	下	玻	璃	而	不	伤	身	体	。
我	能	吞	下	玻	璃	而	不	傷	身	體	。	我	可	以	食	玻	璃	，	但	傷	唔	到	我	。

霞鶯新晰黑 = LXGWNeoXiHei.ttf, LXGWNeoXiHeiScreen.ttf

私	ガ	ラ	ス	を	食	べ	ら	れ	ま	す	。	☒	そ	れ	は	私	を	傷	つ	け	ま	せ	ん	。
我	能	吞	下	玻	璃	而	不	伤	身	体	。	☒	我	能	吞	下	玻	璃	而	不	伤	身	体	。
我	能	吞	下	玻	璃	而	不	傷	身	體	。	我	可	以	食	玻	璃	，	但	傷	唔	到	我	。

朱雀仿宋 = LXGWZhuqueFangsong-Regular.ttf

私	ガ	ラ	ス	を	食	べ	ら	れ	ま	す	。	■	そ	れ	は	私	を	傷	つ	け	ま	せ	ん	。
我	能	吞	下	玻	璃	而	不	伤	身	体	。	■	我	能	吞	下	玻	璃	而	不	伤	身	体	。
我	能	吞	下	玻	璃	而	不	傷	身	體	。	我	可	以	食	玻	璃	，	但	傷	唔	到	我	。

霞鶯文楷, 霞鶯臻楷 = LXGWenKaiGBLite-Regular.ttf, LXGWZhenKaiGB-Regular.ttf

私	ガ	ラ	ス	を	食	べ	ら	れ	ま	す	。	Ⓢ	そ	れ	は	私	を	傷	つ	け	ま	せ	ん	。
我	能	吞	下	玻	璃	而	不	伤	身	体	。	Ⓢ	我	能	吞	下	玻	璃	而	不	伤	身	体	。
我	能	吞	下	玻	璃	而	不	傷	身	體	。	我	可	以	食	玻	璃	，	但	傷	唔	到	我	。

A The Source Code

A.1 The `ctex-fontset-lxgw.def` file

Start the optionlist fontset for l3docstrip.

```
1  ⟨*fontset⟩
```

Load CJK font family, the interface provided by ctex-kit accepts the following 3 branches.

```
2  \ctex_fontset_case:nnn
```

pdfTeX For those pdfTeX or L^AT_EX + DVIPDFMx.

```
3  {
```

Load the .spa file for the CJKpunct package under pdfTeX.

```
4      \ctex_file_input:n { ctexspa-lxgw.def }
```

Case choice controlled by the zhmap key of ctex-kit.

```
5      \ctex_zhmap_case:nnn
```

#1: Content of this argument will be outputted to the input stream when zhmap = zhmCJK

```
\cs_gset_eq:NN \ctex_zhmap_case:nnn \use_i:nnn
```

The LXGW font family uses UniGB-UTF16-H Character To Glyph Index Mapping Table.

```
6      {
7          \setCJKmainfont { LXGWNeoZhiSong.ttf }
8          [
9              cmap          = UniGB-UTF16-H, AutoFakeBold,
10             ItalicFont    = LXGWWenKaiGBLite-Regular.ttf,
11             BoldItalicFont = LXGWZhenKaiGB-Regular.ttf
12          ]
13      \setCJKsansfont { LXGWNeoXiHei.ttf }
14      [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
15      \setCJKmonofont { LXGWZhuqueFangsong-Regular.ttf }
16      [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
17      \setCJKfamilyfont { zhsong } { LXGWNeoZhiSong.ttf }
18      [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
19      \setCJKfamilyfont { zhhei } { LXGWNeoXiHei.ttf }
20      [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
21      \setCJKfamilyfont { zhfs } { LXGWZhuqueFangsong-Regular.ttf }
22      [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
23      \setCJKfamilyfont { zhkai } { LXGWWenKaiGBLite-Regular.ttf }
24      [ cmap = UniGB-UTF16-H, AutoFakeSlant,
25        BoldFont          = LXGWZhenKaiGB-Regular.ttf,
26        SlantedFont       = LXGWWenKaiGBLite-Regular.ttf,
27        ItalicFont        = LXGWWenKaiGBLite-Regular.ttf,
28        BoldSlantedFont   = LXGWZhenKaiGB-Regular.ttf,
29        BoldItalicFont    = LXGWZhenKaiGB-Regular.ttf ]
```

Configure the usages of the edge information of the defined CJK families.

```
30      \ctex_punct_set:n { lxgw }
31      \ctex_punct_map_family:nn { \CJKrmdefault } { zhsong }
32      \ctex_punct_map_family:nn { \CJKsfdefault } { zhhei }
33      \ctex_punct_map_family:nn { \CJKttdefault } { zhfs }
```

```

34         \ctex_punct_map_bfseries:nn { \CJKrmdefault, zhsong } { zhsongb }
35         \ctex_punct_map_bfseries:nn { \CJKsfdefault, zhhei } { zhheib }
36         \ctex_punct_map_itshape:nn { \CJKrmdefault } { zhkai }
37     }

```

#2: Content of this argument will be outputted to the input stream when `zhmap = true`

```
\cs_gset_eq:NN \ctex_zhmap_case:nnn \use_ii:nnn
```

Load the mapping file `ctex-zhmap-lxgw.tex` (see [A.3](#)) for zhmatrices and set `\CJKrmdefault`, `\CJKsfdefault`, `\CJKttdefault`, respectively.

```

38     {
39         \ctex_load_zhmap:nnnn { rm } { zhhei } { zhfs } { lxgw }

```

Configure the usages of the edge information of `\CJKrmdefault`.

```

40         \ctex_punct_set:n { lxgw }
41         \ctex_punct_map_family:nn { \CJKrmdefault } { zhsong }
42         \ctex_punct_map_bfseries:nn { \CJKrmdefault } { zhhei }
43         \ctex_punct_map_itshape:nn { \CJKrmdefault } { zhkai }
44     }

```

#3: Content of this argument will be outputted to the input stream when `zhmap = false`

```
\cs_gset_eq:NN \ctex_zhmap_case:nnn \use_iii:nnn
```

Here will raise a `fontset-unavailable` error.

```

45     { \ctex_fontset_error:n { lxgw } }
46 }

```

`upTeX`, `ApTeX` For those use `upTeX` + `DVIPDFMx`. Configure the basic font mapping for `upTeX`. Due to the definition in `zhmetrics-uptex`, configure

1. upshape of serif font.
2. bfseries of serif font.
3. itshape of serif font.
4. upshape of sans font.
5. bfseries of sans font.
6. upshape of mono font.

```

47 {
48     \ctex_set_upfonts:nnnnnn
49     { LXGWNeoZhiSong.ttf }
50     { LXGWNeoZhiSongScreen.ttf }
51     { LXGWWenKaiGBLite-Regular.ttf }
52     { LXGWNeoXiHei.ttf }
53     { LXGWNeoXiHeiScreen.ttf }
54     { LXGWZhuqueFangsong-Regular.ttf }

```

Config the NFSS font families `zhsong`, `zhhei`, `zhfs`, and `zhkai` to the JFM name in normal type and bold type. Leave empty for those font families with no bold version.

```

55     \ctex_set_upfamily:nnn { zhsong } { upzhserif } { upzhserifb }
56     \ctex_set_upfamily:nnn { zhhei } { upzhsans } { upzhsans }
57     \ctex_set_upfamily:nnn { zhfs } { upzhmono } { }
58     \ctex_set_upfamily:nnn { zhkai } { upzhserifit } { }
59 }

```

X₃TeX, LuaTeX For those use X₃TeX or LuaTeX.

```

60 {
61   \setCJKmainfont { LXGWNeoZhiSong }
62   [
63     Extension      = .ttf, AutoFakeBold,
64     ItalicFont      = LXGWWenKaiGBLite-Regular,
65     BoldItalicFont = LXGWZhenKaiGB-Regular.ttf,
66   ]
67   \setCJKsansfont { LXGWNeoXiHei }
68   [ Extension = .ttf, AutoFakeBold, AutoFakeSlant ]
69   \setCJKmonofont { LXGWZhuqueFangsong-Regular }
70   [ Extension = .ttf, AutoFakeBold, AutoFakeSlant ]
71   \setCJKfamilyfont { zhsong } { LXGWNeoZhiSong }
72   [ Extension = .ttf, AutoFakeBold, AutoFakeSlant ]
73   \setCJKfamilyfont { zhhei } { LXGWNeoXiHei }
74   [ Extension = .ttf, AutoFakeBold, AutoFakeSlant ]
75   \setCJKfamilyfont { zhfs } { LXGWZhuqueFangsong-Regular }
76   [ Extension = .ttf, AutoFakeBold, AutoFakeSlant ]
77   \setCJKfamilyfont { zhkai } { LXGWWenKaiGBLite-Regular }
78   [ Extension = .ttf, BoldFont      = LXGWZhenKaiGB-Regular,
79     SlantedFont    = LXGWWenKaiGBLite-Regular,
80     ItalicFont     = LXGWWenKaiGBLite-Regular,
81     BoldSlantedFont = LXGWZhenKaiGB-Regular,
82     BoldItalicFont = LXGWZhenKaiGB-Regular ]
83 }

```

```

\songti Shortcuts that same as those in the ctex-kit.
\heiti
\fangsong
\kaishu
84 \NewDocumentCommand \songti { } { \CJKfamily { zhsong } }
85 \NewDocumentCommand \heiti { } { \CJKfamily { zhhei } }
86 \NewDocumentCommand \fangsong { } { \CJKfamily { zhfs } }
87 \NewDocumentCommand \kaishu { } { \CJKfamily { zhkai } }

```

(End of definition for `\songti` and others. These functions are documented on page 1.)

End the optionlist fontset for l3docstrip.

```

88 \fontset

```

A.2 The ctex-spa-make-lxgw.tex and the ctexspa-lxgw.def file

The .spa file of the corresponding font will be used for the CJKpunct package to achieve the punctuation compression, which can ensure the best typeset effect (under the pdfTeX engine). Run the following script, ctex-spa-make-lxgw.tex by executing

```
xetex ctex-spa-make-lxgw
```

in the terminal. Then, one can obtain the ctexpunct-lxgw.spa file.

Start the optionlist makespa for l3docstrip.

```

89 \*makespa

```

Loading the macro file ctex-spa-macro.tex provided by ctex-kit.

```

90 \input ctex-spa-macro %

```

91 \MAKESPA {ctexpunct-lxgw.spa}

End of the script.

```
101 \primitive\end
```

102 $\langle / \text{makespa} \rangle$

103 $\langle *lxgw\text{-}spa \rangle$

```

104 \ctexspadef{lxgwzhsongr}{10,8,9,8,67,8,58,8,71,8,65,9,67,8,65,10,55,5,54,4,64,9,71,9,0,0,10,10
105 \ctexspadef{lxgwzhsongb}{9,7,8,7,67,8,58,8,70,8,65,8,67,8,65,9,55,5,53,3,63,8,70,8,-0,-0,10,10
106 \ctexspadef{lxgwzhhei}{9,5,10,5,65,8,58,5,68,8,66,8,61,8,67,8,53,5,52,3,60,7,71,7,0,0,11,11,4
107 \ctexspadef{lxgwzhheib}{9,5,9,5,64,8,57,5,68,8,65,7,61,8,67,8,53,5,52,3,60,6,70,6,0,0,11,11,4
108 \ctexspadef{lxgwzhfs}{3,2,3,2,60,8,60,5,65,16,62,17,63,18,59,17,60,13,49,12,60,6,69,8,0,0,11,
109 \ctexspadef{lxgwzhkai}{12,11,6,4,72,6,68,5,72,6,71,7,72,6,68,7,66,5,52,5,70,-1,72,4,0,0,12,12
110 \ctexspadef{lxgwzhkaib}{6,8,6,8,71,4,64,5,71,5,70,6,71,5,67,6,65,4,47,4,62,3,66,3,-1,-1,10,10
111 </lxgw-spa>

```

Start the optionlist `zhmap-1xgw` for `l3docstrip`.

112 *zhmap-lxgw*

Forked from the zhmap optionlist of ctex.dtx¹.

¹<https://github.com/CTeX-org/ctex-kit/blob/master/ctex/ctex.dtx>

```

129 \x 46 12 % .
130 \x 47 12 % /
131 \x 58 12 % :
132 \x 60 12 % <
133 \x 61 12 % =
134 \x 64 11 % @
135 \x 91 12 % [
136 \x 93 12 % ]
137 \x 123 1 % {
138 \x 125 2 % }
139 \edef\x#1{\endgroup%
140 \edef\noexpand#1{%
141 \the\toks0 %
142 \let\noexpand\noexpand\noexpand#1%
143 \noexpand\noexpand\noexpand\undefined%
144 \noexpand\noexpand\noexpand\endinput}%
145 \the\toks2}%
146 \expandafter\x\csname ctex@zhmap@endinput\endcsname
147 \begingroup\expandafter\endgroup
148 \expandafter\let\csname ifzhmappdf\expandafter\endcsname\csname
149 \expandafter\ifx\csname ifctexpdf\endcsname\relax
150 \expandafter\ifx\csname pdfoutput\endcsname\relax
151 iffalse\else\ifnum\pdfoutput < 1 iffalse\else iftrue\fi\fi
152 \else ifctexpdf\fi
153 \endcsname
154 \begingroup
155 \expandafter\ifx\csname ProvidesFile\endcsname\relax
156 \long\def\x#1\ProvidesFile#2[#3]{%
157 #1%
158 \immediate\write-1{File: #2 #3}%
159 \expandafter\xdef\csname ver@#2\endcsname{#3}}
160 \expandafter\x%
161 \fi
162 \endgroup

```

Provides the identification information of the font map loader.

```

163 \ProvidesFile{ctex-zhmap-lxgw.tex}%
164 [\LXGWFileDate\ \LXGWFileVersion\ lxgw font map loader for DVIPDFMx (CTEX)]

```

Font map loader for pdf_T_EX (generate PDF).

```

165 \ifzhmappdf
166 \pdfmapline{=gbk@UGBK@ <LXGWNeoZhiSong.ttf}
167 \pdfmapline{=gbksong@UGBK@ <LXGWNeoZhiSong.ttf}
168 \pdfmapline{=gbkkai@UGBK@ <LXGWWenKaiGBLite-Regular.ttf}
169 \pdfmapline{=gbkhei@UGBK@ <LXGWNeoXiHei.ttf}
170 \pdfmapline{=gbkfs@UGBK@ <LXGWZhuqueFangsong-Regular.ttf}
171 \pdfmapline{=cyberb@Unicode@ <LXGWNeoZhiSong.ttf}
172 \pdfmapline{=unisong@Unicode@ <LXGWNeoZhiSong.ttf}
173 \pdfmapline{=unikai@Unicode@ <LXGWWenKaiGBLite-Regular.ttf}
174 \pdfmapline{=unihei@Unicode@ <LXGWNeoXiHei.ttf}
175 \pdfmapline{=unifs@Unicode@ <LXGWZhuqueFangsong-Regular.ttf}
176 \pdfmapline{=gbksongs1@UGBK@ <LXGWNeoZhiSong.ttf}

```

```

177 \pdfmapline{=gbkkaisl@UGBK@ <LXGWWenKaiGBLite-Regular.ttf}
178 \pdfmapline{=gbkheisl@UGBK@ <LXGWNeoXiHei.ttf}
179 \pdfmapline{=gbkfssl@UGBK@ <LXGWZhuqueFangsong-Regular.ttf}
180 \pdfmapline{=unisongsl@Unicode@ <LXGWNeoZhiSong.ttf}
181 \pdfmapline{=unikaisl@Unicode@ <LXGWWenKaiGBLite-Regular.ttf}
182 \pdfmapline{=uniheisl@Unicode@ <LXGWNeoXiHei.ttf}
183 \pdfmapline{=unifssl@Unicode@ <LXGWZhuqueFangsong-Regular.ttf}

```

Configuration for pdf_T_EX (generate DVI).

```

184 \else

```

Configure the upright shape of `\songti`, `\kaishu`, `\heiti`, and `\fangsong` mapping for GBK encoding and UTF8 encoding.

```

185 \special{pdf:mapline gbk@UGBK@ UniGB-UTF16-H LXGWNeoZhiSong.ttf}
186 \special{pdf:mapline gbksong@UGBK@ UniGB-UTF16-H LXGWNeoZhiSong.ttf}
187 \special{pdf:mapline gbkkai@UGBK@ UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf}
188 \special{pdf:mapline gbkhei@UGBK@ UniGB-UTF16-H LXGWNeoXiHei.ttf}
189 \special{pdf:mapline gbkfs@UGBK@ UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf}
190 \special{pdf:mapline cyberb@Unicode@ UniGB-UTF16-H LXGWNeoZhiSong.ttf}
191 \special{pdf:mapline unisong@Unicode@ UniGB-UTF16-H LXGWNeoZhiSong.ttf}
192 \special{pdf:mapline unikai@Unicode@ UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf}
193 \special{pdf:mapline unihei@Unicode@ UniGB-UTF16-H LXGWNeoXiHei.ttf}
194 \special{pdf:mapline unifs@Unicode@ UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf}

```

Similar for the (fake) slant shape, set the *Afine Transformation coefficient* to 0.167, which is the same as the default value of `AutoFakeSlant` in the `xeCJK` package.

```

195 \special{pdf:mapline gbksongsl@UGBK@ UniGB-UTF16-H LXGWNeoZhiSong.ttf -s .167}
196 \special{pdf:mapline gbkkaisl@UGBK@ UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf -s .167}
197 \special{pdf:mapline gbkheisl@UGBK@ UniGB-UTF16-H LXGWNeoXiHei.ttf -s .167}
198 \special{pdf:mapline gbkfssl@UGBK@ UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf -s .167}
199 \special{pdf:mapline unisongsl@Unicode@ UniGB-UTF16-H LXGWNeoZhiSong.ttf -s .167}
200 \special{pdf:mapline unikaisl@Unicode@ UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf -s .167}
201 \special{pdf:mapline uniheisl@Unicode@ UniGB-UTF16-H LXGWNeoXiHei.ttf -s .167}
202 \special{pdf:mapline unifssl@Unicode@ UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf -s .167}
203 \fi

```

End the optionlist `zhmap-lxgw` for `l3docstrip`.

```

204 </zhmap-lxgw>

```


Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

Symbols		H	
X _Y TeX, LuaTeX (option)	5	\heiti	1, <u>84</u>
pdfTeX (option)	3	I	
upTeX, ApTeX (option)	4	\ifnum	151
_	164	\ifx	149, 150, 155
B		\ifzhmappdf	165
\begingroup	113, 147, 154	\immediate	158
C		\input	90
\catcode	113, 114, 115, 116, 117, 121, 122	K	
\CJKfamily	84, 85, 86, 87	\kaishu	1, <u>84</u>
\CJKrmdefault	31, 34, 36, 41, 42, 43	L	
\CJKsfdefault	32, 35	\let	142, 148
\CJKttdefault	33	\long	156
\csname	146, 148, 149, 150, 155, 159	\LXGWFileDate	164
ctex commands:		\LXGWFileVersion	164
\ctex_file_input:n	4	M	
\ctex_fontset_case:nnn	2	\MAKESPA	91
\ctex_fontset_error:n	45	N	
\ctex_load_zhmap:nnnn	39	\NewDocumentCommand	84, 85, 86, 87
\ctex_punct_map_bfseries:nn	34, 35, 42	\noexpand	140, 142, 143, 144
\ctex_punct_map_family:nn	31, 32, 33, 41	O	
\ctex_punct_map_itshape:nn	36, 43	options:	
\ctex_punct_set:n	30, 40	X _Y TeX, LuaTeX	5
\ctex_set_upfamily:nnn	55, 56, 57, 58	pdfTeX	3
\ctex_set_upfonts:nnnnnn	48	upTeX, ApTeX	4
\ctex_zhmap_case:nnn	5	P	
\ctexspadef	104, 105, 106, 107, 108, 109, 110	\pdfmapline	166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183
D		\pdfoutput	151
\def	120, 156	\primitive	101
E		\ProvidesFile	156, 163
\edef	139, 140	R	
\else	151, 152, 184	\relax	113, 118, 121, 149, 150, 155
\end	101	S	
\endcsname	146, 148, 149, 150, 153, 155, 159	\setCJKfamilyfont	17, 19, 21, 23, 71, 73, 75, 77
\endgroup	139, 147, 162	\setCJKmainfont	7, 61
\endinput	144	\setCJKmonofont	15, 69
\endlinechar	118, 119	\setCJKsansfont	13, 67
\expandafter	121, 122, 146, 147, 148, 149, 150, 155, 159, 160	\songti	1, <u>84</u>
F			
\fangsong	1, <u>84</u>		
\fi	151, 152, 161, 203		

